

BLACKHAWK SOCKET WRENCHES



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BLACKHAWK

SOCKET WRENCHES



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BLACKHAWK

QUALITY
SERVICE FINISH

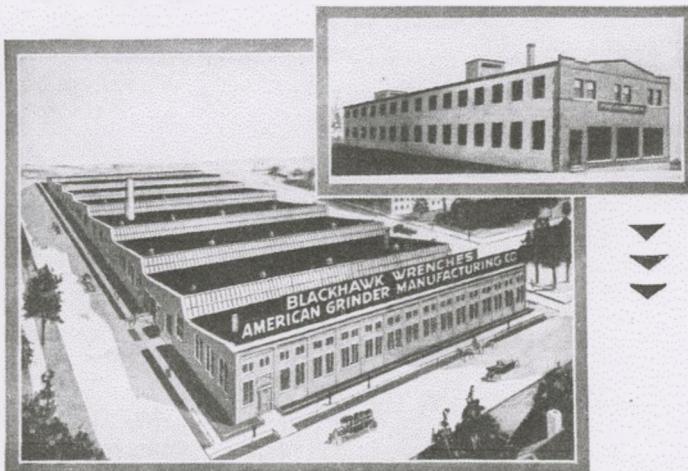


RUST- PROOF WRENCHES

CATALOG No. 3

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A COMPLETE LINE OF SOCKET WRENCHES USED BY THE AUTOMOTIVE TRADE IN GENERAL, FOR AUTOMOBILES, TRACTORS, MOTOR TRUCKS, AEROPLANES, GARAGES, SERVICE STATIONS, MACHINE SHOPS, ETC.



AMERICAN GRINDER MFG. CO.
MILWAUKEE, WIS., U. S. A.

SELLING AGENTS: C. N. & F. W. JONAS

Transportation Bldg.	- - - - -	Chicago, Ill.
111 New Montgomery St.	- - - - -	San Francisco, Cal.
708 Equitable Savings Bank Bldg.	- - - - -	Los Angeles, Cal.
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524 Forsyth Bldg.	- - - - -	Atlanta, Ga.
710 McArthur Bldg.	- - - - -	Winnipeg, Canada

New Progress in Wrench Making

BLACKHAWK wrenches mark a distinctive step forward in wrench-making. They are different. They have been designed and made along new lines that have established new standards. Their great strength, simplicity, finish, versatility and general superiority are the subject of comment wherever wrenches are used or sold.

There are Blackhawk individual wrenches and combination wrench sets for garages, automobilists, machinists, engineers, tractors, aeroplanes and service station use. When invention introduces a new, practical type of machine, a Blackhawk wrench is soon ready to serve that particular assembling or repair need.

Attention to every little detail that will make for Blackhawk superiority, is the main ideal of the American Grinder Mfg. Co., Manufacturers of the Blackhawk line. For example, Blackhawk Wrenches are treated by the Parker Rust-Proof Process, which imparts a fine, black, lasting finish to the tool. This treatment is an effectual rust preventative used in gun making. The unusual strength of Blackhawk wrenches is obtained by machine-turning the sockets from the solid steel bar. They are broached out, $1/64$ -inch oversize to insure perfect fit.

When you see Blackhawk Wrenches, you are immediately impressed by their sturdy build, serviceable shapes and permanent, non-rusting finish.

A large modern factory, equipped with special types of modern machines, is devoted exclusively to the manufacture of Blackhawk Wrenches.

The American Grinder Mfg. Co., as its name suggests, also manufactures grinders—not common grinders—but, Quality Tool Grinders which have earned the distinction of being the finest grinders made. A special catalog of the latter product will be mailed upon request.



BLACKHAWK

Combination Wrench Sets

For Automobilists, Machinists, Engineers,
Tractors, Aeroplanes, Garage
and Service Station Use.

Built Strong — Guaranteed

Blackhawk Combination Socket Wrench Sets are superior to any other line of similar sets on the market, not only in quality, but for efficiency and finish. They are made of the very best material throughout. The sockets are machine turned from the solid steel bar and properly tempered. The opening of all sockets are accurately broached $1/64$ " over size, which insures perfect fit and unlimited service. Set No. 10 is very complete and will enable the user to

reach places difficult of access or in cramped quarters, where the ordinary type of wrench is out of the question. To meet all conditions, we have included our guaranteed ratchet wrenches, brace wrench, extension bars, universal joint, etc.

All these tools are finished with the Parker rust proof process which insures against rust, making them very popular for motor boat, automobile, motor cycle, aeroplane, garage and service station use.



No. 10. Set

Contains 9" ratchet wrench, 2 extension bars, pipe wrench, brace wrench, Universal joint, 2 spark plug sockets, 5 open end thin wrenches, pliers, combination tee and offset handle, double end screw driver, valve grinding attachment, cotter pin puller, 16 hex. sockets, sizes, $1/8$, $1/2$, $1/8$, $3/2$, $5/8$, $11/16$, $3/4$, $13/16$, $15/16$, $17/16$, $19/16$, $11/8$, $11/4$, and 11 square machined steel sockets, sizes, $1/8$, $1/2$, $1/8$, $5/16$, $11/16$, $3/4$, $7/8$, $11/8$, $13/16$, $15/16$, $17/16$, $19/16$. The case is a heavy wooden box, with hinged cover and in mahogany finish.

"Please order in unit packages." (10 wrenches).



Combination Socket Wrench Sets

A complete set with Ratchet Wrench, sockets, extension bars, etc. Desirable set for garage or shop use. Guaranteed machined steel sockets.



No. 8. Set

- 16 Machined steel hex sockets, sizes $\frac{1}{16}$ to $1\frac{1}{4}$ inclusive.
 - 3 Machined steel sq. sockets, sizes $\frac{1}{16}$ - $\frac{1}{2}$ - $\frac{1}{8}$
 - 1 Ratchet wrench, 9" hdle.,
 - 2 Extension bars, 6" and 10" long,
 - 1 Universal joint,
 - 5 Open end wrenches,
 - 1 Comb. tee and offset hdle.,
 - 1 Spark plug socket double end,
- Packed in wooden box.

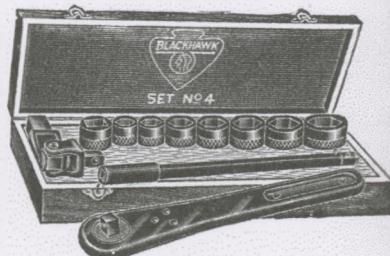


No. 6. Set

- Desirable Set for Car Owner**
- 15 Hex. Machined steel sockets, sizes $\frac{1}{16}$ to $1\frac{1}{4}$ inclusive.
 - 1 9" ratchet wrench,
 - 1 Universal joint,
 - 1 Extension bar-8",
 - 1 Comb. tee and offset hdle.
- Packed in wooden box

Combination Socket Wrench Sets

Complete set for Ford owner; will cover all standard nuts and bolt heads.



No. 4. Set Contains

- 7 Hex. Machined sockets, sizes $\frac{1}{2}$, $\frac{1}{8}$, $\frac{5}{8}$, $\frac{11}{16}$, $\frac{3}{4}$, $\frac{7}{8}$, $\frac{15}{16}$,
 - 1 Sq. machined socket, size $\frac{1}{4}$.
 - 1 9" ratchet wrench,
 - 1 Universal joint,
 - 1 Extension bar - 8",
- Packed in wooden box.



No. 2. Set

A small but handy set for Automobile, Motor Cycle, etc.

Contains

- 6 Hex. machined sockets, sizes $\frac{1}{2}$, $\frac{1}{8}$, $\frac{5}{8}$, $\frac{11}{16}$, $\frac{3}{4}$, $\frac{7}{8}$.
- 1 Comb. tee and offset hdle.,
- 1 Extension bar - 6".

Packed in fibre box.

"Please order in unit packages." (10 wrenches).



No. 50 Stock Cabinet

Given free with assortment of Combination Wrench Parts. This stock cabinet, made up specially for the hardware and accessories store. Dealers will find ready sale for items contained in this most complete stock set. The cabinet is 21" high, 18" wide and 11" deep; each drawer arranged with compartments for the different size sockets, as well as for other items contained in cabinet.

With this stock cabinet you can supply your customers with wrenches for all kinds of work, whether for garage or service station use, manufacturer or farmer. Every tool guaranteed. All sockets are machine turned steel and 1/64" oversize.



No. 50 Stock cabinet contains:

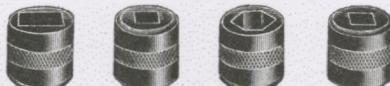
Hexagon Sockets:

- 12 ea. 8 sizes 14 to 25
 - 6 ea. 8 sizes 26 to 40
 - 144—Total No. of Hex. Sockets.
- ##### Square Sockets:
- 6 ea. 5 sizes 014 to 020
 - 3 ea. 6 sizes 022 to 041
 - 48—Total No. of Square Sockets.
- 4 ea. 4-B, 6-B, 8-B Bit Shanks
 - 12 T-4 Offset and Tee Handles
 - 4 ea. T-6, T-8, T-10 Extension Bars
 - 6 T-2 Universal Joints
 - 6 T-5 Offset Handles
 - 6 T-7 Canvas Rolls
 - 3 ea. 3329-3731 Spark Plug Wrenches
 - 6 911 Ratchet Wrenches

Parts Contained In No. 50 Stock Cabinet

Please order by our stock numbers

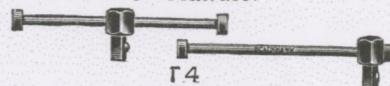
Extra Strong Machined Steel Sockets



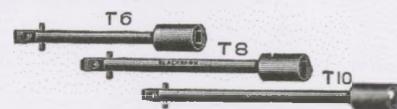
Hex. or Sq. Machined Sockets



No. 911 Ratchet Wrench
9" Handle.



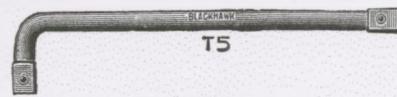
No. T-4 Off and Tee Hd



No. T-6 Extension Bar 6"
No. T-8 " " 8"
No. T-10 " " 10"



No. 4-B Bit shank 4"
No. 6-B " " 6"
No. 8-B " " 8"



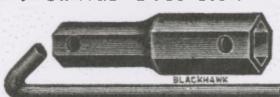
No. T-5 Double End Handle



No. T-2 Universal Joint



No. T-7 Canvas Tool Roll



No. 3329 $\frac{3}{8}$ " x 1-1/32
No. 3731 $\frac{3}{8}$ " x 1-5/32

"Please order in unit packages." (10 wrenches).



BLACKHAWK STEEL SOCKETS

Hexagon and Square.

Machined from the solid bar steel. Accurately broached 1/64" over size, insuring perfect fit. Heat treated and Parker rust proof finish. Every socket guaranteed.

Order by Stock Numbers

Extra Strong Machined Steel Sockets



SIZES BELOW ARE BOLT OR SCREW SIZES

TABLE OF HEXAGON SOCKETS									
NO.	SOCKET SIZES	U. S. S. NUTS SIZE BOLT	HEX. HEAD CAP. SCREWS U. S. STD.	S. A. E. STD. NUTS & CAP. SCREWS	A. L. A. M.	MFRS. STD. BOLT HEAD	HEX. HEAD SET SCREWS	COACH SCRFWS	
14	7-16	1-4	1-4	1-4	.....	7-16	.....	.....
16	1-2	1-4	5-16	5-16	5-16	1-2	.....	.....
18	9-16	3-8	3-8	3-8	3-8	9-16	.....	.....
19	19-32	5-16	.....	.....	.....	.....	3-8	.....
20	5-8	7-16	7-16	7-16	7-16	5-8	.....	.....
22	11-16	3-8	1-2	1-2	1-2	1-2	3-4	1-2	
24	3-4	1-2	1-2	1-2	1-2	1-2	1-2	1-2	
25	25-32	7-16	9-16	9-16	9-16	9-16	9-16	9-16	
26	13-16	9-16	.....	.....	.....	.....	.....	.....
28	7-8	1-2	5-8	9-16	9-16	7-8	.....	.....
30	15-16	.....	.....	5-8	5-8	5-8	5-8	5-8	
31	31-32	9-16	.....	.....	.....	.....	.....	.....
32	1	5-8	3-4	11-16	11-16	3-4	1	.....
34	1-1-16	5-8	7-8	3-4	3-4	1-1-8	3-4	.....
36	1-1-8	7-8	7-8	3-4	3-4	1-1-8	3-4	.....
40	1-1-4	3-4	1	7-8	7-8	1-1-4	1-1-4	1-1-4	

TABLE OF SQUARE SOCKETS

NO.	SIZE OPENING	SQ. HEAD SET SCREW	SQ. HEAD U. S. CAR. SCREWS	SQ. HEAD U. S. S. NUT BOLT SIZE	GUARANTEED BROACHED STEEL SOCKETS
014	14-32	7-15	5-16	1-4	
016	1-2	1-2	3-8	1-4	
018	9-16	9-16	7-16	1-4	
019	19-32	.....	.....	5-16	
020	5-8	5-8	1-2	1-2	
022	11-16	.....	9-16	3-8	
024	3-4	3-4	5-8	7-16	
025	25-32	7-8	3-4	1-2	
028	7-8	7-8	3-4	5-8	
034	1-1-16	1	.....	3-4	
041	1-9-32	1-1-4	1	.....

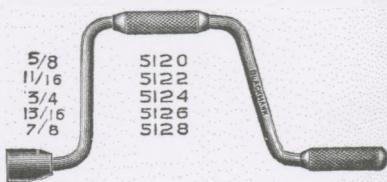
Standard Packages

All wrenches and parts packed 10 to a package. Please order in unit packages.

"Please order in unit packages." (10 wrenches).

Demountable Rim Brace Socket Wrench

The wrench for use on demountable rims for car owner, or for use in garage or service station. Has solid steel knurled swivel handles, which is far more serviceable than wooden handles. Sockets are the best. Parker rust proof finish. See that BLACKHAWK is stamped on the wrench which insures perfect satisfaction and guarantee.

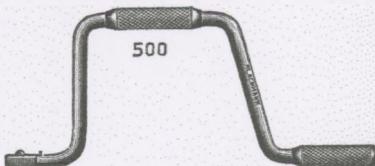


Sizes for Different Make Rims.

- 5120 Sizes $\frac{5}{8}$ " fits Kelsey Jaxon rims.
- 5122 Size $\frac{11}{16}$ " fits Fisk Dem., Goodrich, Firestone.
- 5124 Size $\frac{3}{4}$ " fits Baker, Continental, Detroit, Fisk, Stan. Weld. Goodyear.
- 5126 Size $\frac{15}{16}$ ", Stan-Weld No. 2, Universal.
- 5128 Size $\frac{7}{8}$ " fits Fisk tires.

When ordering BLACKHAWK wrenches use our stock numbers.

All BLACKHAWK wrenches are finished with the Parker rust proof process.

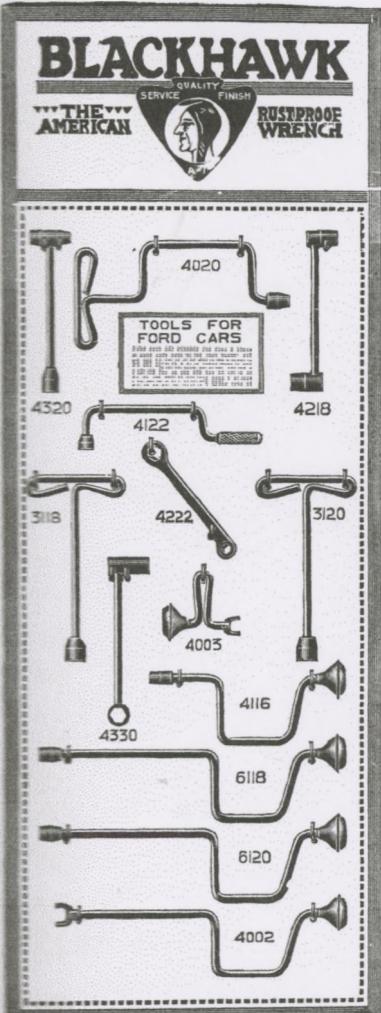


No. 500 Brace

To be used with combination parts.



No. 400. Dealers' Display Set of Special Wrenches Used on Ford Cars



400 Set Contains:

- 4020 Connecting Rod Wrenches.
- 4320 Handy Socket Wrenches.
- 4118 Triple Socket Wrenches.
- 4222 Transmission Band Wrenches.
- 4122 Fly Wheel Cap Screw Wrenches.
- 3118 Long Tee Handle Wrenches.
- 3120 Long Tee Handle Wrenches.
- 4370 Heavy Triple Socket Wrenches.
- 4111 Short Speeders.
- 4003 Short Valve Grinders.
- 4002 Long Valve Grinders.
- 6118 Speed Wrenches.
- 6120 Speed Wrenches.

The tools on No. 400 display board consist of six of each style and are for use on Ford cars by the owner or repairman.

Every tool guaranteed. Repair men want tools that will speed up their work. BLACKHAWK TOOLS DO THIS, for they are made to fit, and will give efficient service and wear.

This display board is most attractive and is an asset to any store. The face is made of sheet steel, handsomely lithographed, which makes it a permanent fixture. Given free with assortment of wrenches as listed under illustration.

Proper Wrenches For Use on Ford Cars

Axle housing bolt and nut	4116-4320-6210-516-616
Brake & rev. sup. nut & bolt	3120-6120-520-420
Brake shoe sup. nut	4218
Brake shoe sup. bolt	520-3120-6120-420
Brake band	4222
Clutch lever & release fork screws and nuts	518-6118-618-3118
Cylinder cover cap screws	6118-618-518-3118
Cylinder head cap screws	6120-620-420-520-4320
Cylinder head inlet con. screws	4320
Cylinder head outlet con. screws	4320
Cylinder valve cover nut and stud	518-3118
Cylinder cover bolt and nut	618-6118-518-3118
Cam gear lock nut	438
Crank case lower cover	4116-4320-516-3118
Crank shaft bearing nuts center, front and rear	4218
Crank case arm bolt and nut	3118-518-1218
Connecting rod clamp screws	4218
Connecting rods including 4th	4020-4120-520-420
Differential case stud and nuts	4320
Differential drive gear screws	516-4118-4320
Drive shaft pinion nut	430-4330
Drive shaft roller bearing nuts	4320
Fan bracket bolt	4218
Fan adj. screw and nut	518-3118-6118-618
Fly wheel cap screw nuts	4122
Fender iron bolt and nuts	4116-616-516-4320
Front spring clip nut	4330
Front spring tie bolt and nut	4320
Hub bolt and nut	4330
Lamp bracket nuts	4218
Inlet and exhaust clamp stud and nuts	6118-618-518-3118
Magnet bolt	618-6118-518-3118
Main bearing nut	4218
Muffler bracket bolt and nuts	6118-618-518-3118
Muffler rod nuts	4116-616-4320
Radius rod ball joint	618-420-3118
Radiator stud nuts	1218-3118-618-518
Radius rod bolt and nut	4330
Rear spring clip nut	4222
Reverse band	4222
Running board bolt and nuts	4320
Slow speed con. lock nut	4222
Spindle arm nut	4330
Spindle bolt and spindle bolt nut	4218
Spindle con. rod bolt	4218
Steering arm nut	1224-3125
Steering gear post nut	6124-4218-3124
Steering post bracket	618-518-4218-6118
Transmission band adj. screws	4222
Transmission band adj. screw nut	6118-618-3118
Timer case support bolt	4218-3118-518
Transmission cover bolt & nut	618-618-6118-3118
Universal ball cap screws	518-3118

"Please order in unit packages." (10 wrenches).



Guaranteed Tools for Use on Ford Cars



430 Pinion Gear Nut

15/16" Extra Heavy Socket for use on Drive Shaft Pinion nut, especially made for Garage and Service Station use.



420 Triple Socket Wrench With Universal Joint

Socket sizes $\frac{5}{8}$ ", $\frac{13}{16}$ ", $\frac{3}{4}$ ", particularly for garage and service station use. Made of very best material and fully guaranteed. Will fit fourth connecting rod, cylinder head bolts, engine base bolts, radius rod ball point, etc. Also useful for work on other makes of cars. See directory.



438 Cam Gear Lock Nut Wrench

Performs its duty with ease, while the old type of wrenches are almost useless. Desirable for garage and service station use.



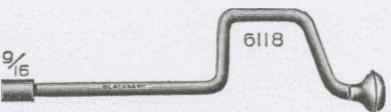
4003 Short Valve Grinder

Particularly designed to grind valve under dash when motor is not removed from the car.



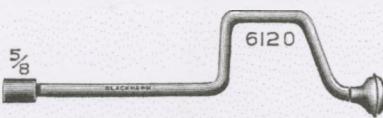
4002 Long Valve Grinder

Used in all Ford Valves when motor is removed from the car. Can also be used in many other makes of cars.



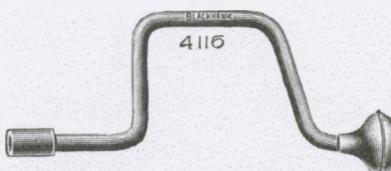
6118 Speeder

Extra heavy $\frac{1}{2}$ " stock $\frac{1}{8}$ " socket, especially designed for use on engine base bolts and on many of same parts as 3118. Use this wrench where speed is required.



6120 Speeder

Extra heavy $\frac{1}{2}$ " stock, $\frac{5}{8}$ " socket for use on Cylinder Head Bolts. For additional use see No. 3120, or directory.



4116 Short Speeder

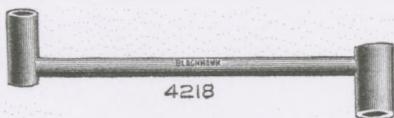
$\frac{1}{2}$ " Socket specially made for use on Crank case lower cover, when no pit is used. Also Fender nuts and Differential drive gear screws.

"Please order in unit packages." (10 wrenches).



Guaranteed Tools for Use on Ford Cars

No. 700 Display Board



**4218 Hammer Head Double
Socket Wrench**

Sizes of sockets $\frac{5}{16}$ " and $\frac{3}{4}$ ". Fits Crank Shaft (main) bearing nuts, steering gear post and bracket, Brake Shoe support, spindle bolt and nut, Fan bracket, Radius Rods ball joint nuts, Timer support arms, Lamp bracket nut. See directory for further uses.



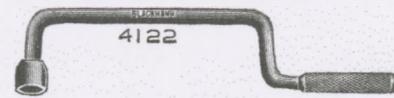
**4222 Transmission Band
Wrench**

Especially designed for Transmission Bands (brake and reverse), using Ratchet end. $\frac{11}{16}$ " opening, $\frac{11}{16}$ " Hex. opening. Very best wrench for use on Champion X Spark Plug. No slipping off and breaking the porcelain of Plug.



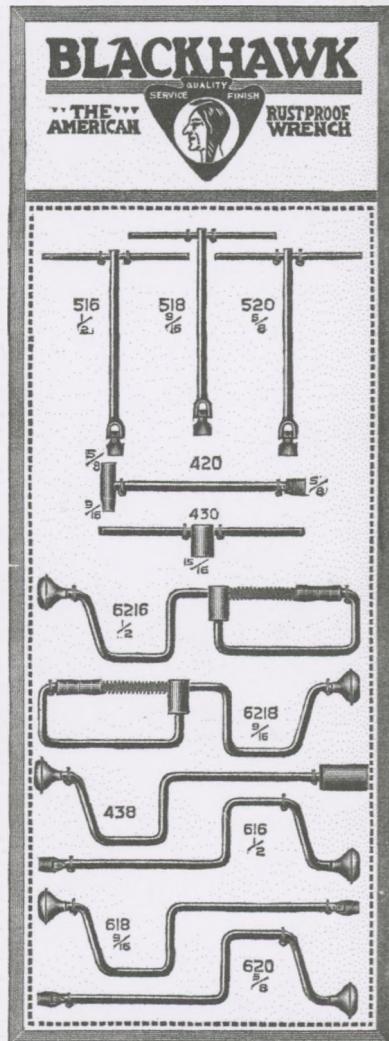
**4330 Extra Heavy Triple
Socket Wrench**

Sizes of sockets $\frac{11}{16}$ ", $\frac{7}{8}$ " and $\frac{11}{16}$ ". Fits spindle arm and Body bolt nut, rear and front spring clip nut, rear hub lock nut, Hub bolt and nut, Drive shaft Pinion nut, Radius Rod bolt and nut.



**4122 Fly Wheel Cap Screw
Wrench**

$\frac{11}{16}$ " socket, especially designed to properly perform its duty. Saves labor and money.



- 6—516 Univ. Tee Handle Wrenches.
- 6—518 Univ. Tee Handle Wrenches.
- 6—520 Univ. Tee Handle Wrenches.
- 6—420 Handy Universal Joint Wrench.
- 6—430 Pinion Gear Nut Wrenches.
- 6—6216 Improved Speed Wrenches.
- 6—6218 Improved Speed Wrenches.
- 6—438 Cam Gear Lock Nut Wrenches.
- 6—616 Universal Joint Speed Wrenches.
- 6—618 Universal Joint Speed Wrenches.
- 6—620 Universal Joint Speed Wrenches.

"Please order in unit packages." (10 wrenches).



BLACKHAWK

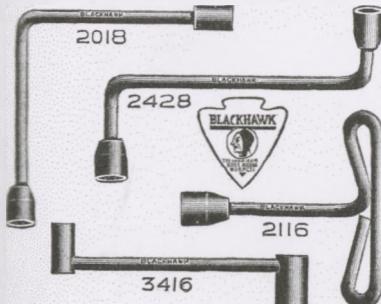


WRENCHES



SPECIAL SOCKET WRENCH SETS FOR OWNERS USE, ALSO GARAGE AND SERVICE STATIONS

No. 30. Chevrolet Set



No. 2116

Tee Handle, $\frac{1}{2}$ " socket. Fits all bolts used on oil pan, rocker arm bracket, axle housing, battery hold down clamps, Bendix drive, oil pump, transmission cover, universal joint housing, transmission bearing retainer, generator, water pump cover, steering gear housing.

No. 3416

Double Socket Wrench, $\frac{1}{2}$ " square and $1\frac{1}{8}$ hex. sockets fit clutch leather inserts, body bolt and nut, front spindle nut, rear wheel nuts, rear spring rear and front bolt.

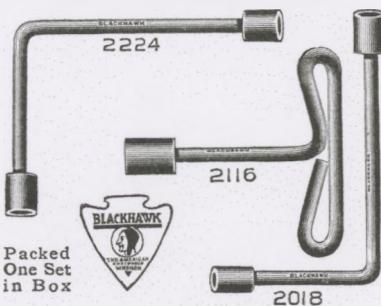
No. 2428

Double Socket Wrench, sizes $\frac{7}{8}$ " and $\frac{3}{4}$ " used on cylinder head bolts, transmission stud, transmission support bolts, clutch collar, main bearing nuts, Rear and front spring bolt.

No. 2018

L Double Socket Wrench, $\frac{9}{16}$ " and $\frac{5}{8}$ ". Fits all bolts, nuts and screws used on fender bracket, connecting rod, fly wheel cap, motor support, clutch yoke, radiator, differential case, connecting rod, upper end; axle housing, B.-G.; intake and exhaust manifold; transmission stud B.-G.; water outlet, rear motor, starting switch bracket, transmission support bracket, steering gear clamp.

No. 25. Maxwell Set.



No. 2224

L Double Socket Wrench, $\frac{3}{4}$ " and $\frac{11}{16}$ " hex. sockets, used on crank shaft bearing bolts, rear axle nuts, cylinder head bolts and body bolts.

No. 2116

Tee Handle, $\frac{1}{2}$ " socket, used on differential case bolts, outside crank case cap screws, clutch case to transmission, water inlet manifold, transmission main shaft bearing bolts, front fender brackets, clamps for storage battery, steering gear housing bolts and starting switch bracket cap screws.

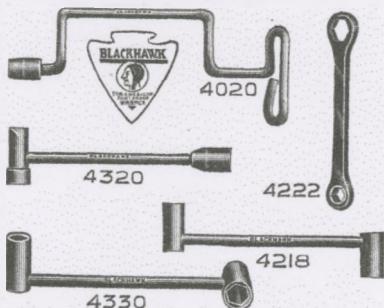
No. 2018

L Double Socket Wrench, sizes $\frac{5}{8}$ " and $\frac{13}{16}$ " fits flywheel cap screws, spring shackle bolts, spring clip nuts, running board bolt and nut, radiator nuts, speedometer bracket bolt, lamp bracket bolts, intake and exhaust manifold bolts, connecting rod nuts, gear case cover cap screws, clutch housing to motor bolts, rear main bearing, nuts, gear housing and main bearing to motor bolts, differential case nut, inside; gear shift housing bolts, cable connections on starter switch, connecting rod wrist pin clamp screw.

"Please order in unit packages." (10 wrenches).



No. 45. Ford Owner Set



Wrenches in this set will take care of practically all bolts and nuts on Ford Cars. Every Wrench Guaranteed and Parker Rust Proof Finish.

No. 4020

Fits all connecting rods, including 4th connecting rod.

No. 4218

$\frac{1}{8}$ " and $\frac{3}{4}$ " socket openings fits crank shaft bearings, radius rod, ball joint nuts, lamp bracket nuts, spindle con. rod, steering gear post, fan adj. bolt, brake shoe support, etc.

No. 4320

Has $\frac{1}{2}$ " and $\frac{5}{8}$ " sockets. Fits rear axle housing, lower crank case cover, cylinder head bolts, cylinder inlet and outlet connections, differential case, drive shaft roller bearing, running board fender, spring tie, controller shaft bracket.

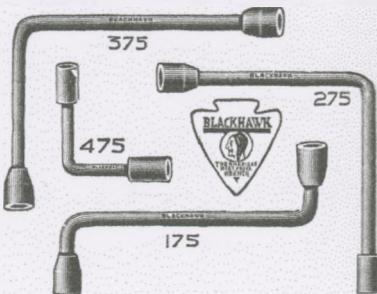
No. 4222

Fits all transmission bands. A great labor saving tool. The 15/16" hex, opening used on Champion X spark plug.

No. 4330

Has $\frac{1}{8}$ ", $\frac{1}{4}$ " and 15/16" socket openings. Fits front spring clips, drive shaft pinion, hub bolts and nuts, radius rod, spindle arm and spindle body bolts, rear hub lock nuts.

No. 750. Overland Set



No. 750. Set Overland Model 90

No. 175. Double Socket Wrench

Size opening $\frac{5}{8}$ " and $\frac{3}{4}$ " fits cylinder head bolts, front spring bolts, etc.

No. 475. Double Socket Wrench

Size opening $\frac{1}{2}$ " and $\frac{7}{8}$ " fits differential plate cap screw, gear case cover nut and bolts, exhaust manifold bolts, fender to frame nuts and bolts, transmission case cover, crank case screws, front splash pan bolts, differential cover, emergency hand brake lever, sector gasoline tank nuts, radiator stay rod nuts, side plate cap screws, spring clips.

No. 375. Double Socket L Wrench

Has $\frac{5}{8}$ " and $\frac{3}{4}$ " sockets. Fits steering post nuts, rear hub, cap and many places on other Overland models.

No. 275. Double Socket Wrench

$\frac{1}{8}$ " and $\frac{1}{4}$ " sockets. Fits connecting rod nut, main bearing nuts, and many places on other models of Overland cars.

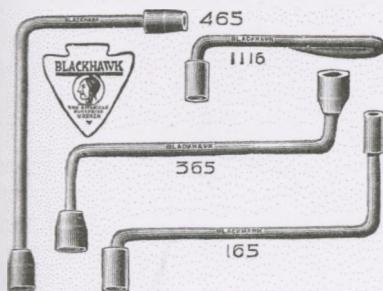
Above set of Wrenches are adaptable to many parts of other models of Overland cars.

When ordering Blackhawk Wrenches use our stock numbers.

"Please order in unit packages." (10 wrenches).



No. 650. Dodge Set



Dodge No. 165

Double Socket Wrench, sizes $\frac{1}{8}$ " and $\frac{1}{16}$ " hex. used on cyl. water inlet, rear axle housing, starter band, etc.

No. 1116

Offset $\frac{1}{2}$ " socket clutch housing cover, clutch pedal clamp, breather bolts, counter shaft, oil pan strainer and pipe connections, reverse gear bracket idler, steering gear, trans. case cover and plate, timer gear cover.

No. 365

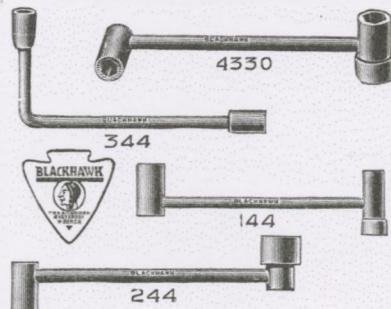
Double socket offset, $\frac{7}{8}$ " and $\frac{3}{4}$ " hex. sockets for crank shaft, main bearing, connecting rods, shifting shaft plunger and support for uni. joint housing.

No. 465

L Double Socket Wrenches, $\frac{1}{2}$ " and $\frac{1}{8}$ " hex. sockets used on crank case, cyl. head bolts, oil pump cover.

No Accessories or Tool Department complete without an assortment of Blackhawk Wrenches. Sales guaranteed. Write for copy of latest discount sheet.

No. 440. Buick Set



No. 4330

Triple Socket Wrench, sizes $15/16$ ", $\frac{7}{8}$ " and $\frac{1}{8}$ " hex. sockets used on hub bolts, motor arm bolts, nuts on wind shield, front spring shackles bolt and nuts and carburetor connection screws, engine arm bolts, steering arm, rear housing nuts and steering arm nuts.

No. 244

Double Socket Wrench, $\frac{3}{4}$ " and 1" used on connecting rod nuts for main bearing, steering gear screws, fan screws, crank case nuts, steering arm valve stem nuts.

No. 344

L Double Socket, sizes $\frac{1}{2}$ " and $\frac{5}{8}$ " hex. sockets, crank case lower cover screws, radiator bracket screws, fender bolts, rear housing cap screws, etc.

No. 144

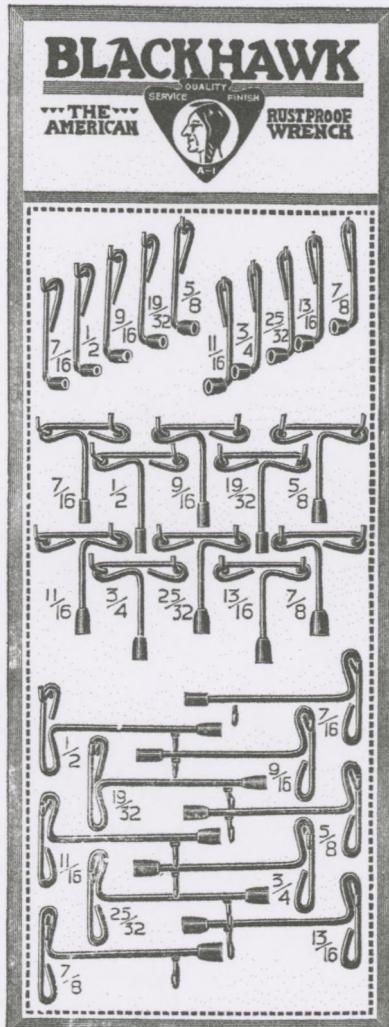
Offset with three sockets, $\frac{5}{8}$ ", $\frac{1}{8}$ " and $\frac{1}{2}$ " hex. used on differential housing screws, rear housing screws, transmission end plate nuts, brake lever nuts and cam shaft support to rods, torsion rods, muffler screws, generator to crank case bolts, break lever clamp screws, cam shaft collar, etc.

"Please order in unit packages." (10 wrenches).



No. 360. Display Set

This handsome display board given free, with the described assortment of wrenches. It is a great salesman. No hardware or accessories store is complete without this stock set.



No. 360 Set Contains

- 60—Tee Handle Wrenches, 12" Shk.
- 60—Tee Handle Wrenches, 6" Shk.
- 60—Offset Wrenches, 7" Handle.

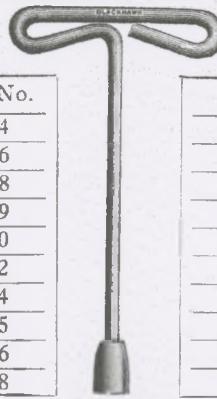
Total (180 Wrenches).

General Service Wrenches

Guaranteed Tools

Tee and Offset

Long T

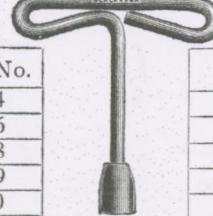


Stock No.
3114
3116
3118
3119
3120
3122
3124
3125
3126
3128

Size
7/16
1/2
9/16
19/32
5/8
11/16
3/4
25/32
13/16
7/8

(12" shank)

Short T



Stock No.
2114
2116
2118
2119
2120
2122
2124
2125
2126
2128

Size
7/16
1/2
9/16
19/32
5/8
11/16
3/4
25/32
13/16
7/8

(6" shank)



Stock No.	Size	Stock No.	Size
1114	7/16	1122	11/16
1116	1/2	1124	3/4
1118	9/16	1125	25/32
1119	19/32	1126	13/16
1120	5/8	1128	7/8

7" Handle

Fit Hex Head Size	7/16	1/2	9/16	19/32	5/8	11/16	3/4	25/32	13/16	7/8
Fit Cap Screw Size	1/4	5/16	9/16	5/8	7/16	11/16	3/2	7/16	9/16	5/8
Fit A.L.A.M. Size	5/16	3/8			7/16	11/16			7/16	
Fit U.S.S. Nut Size	1/4	5/16	9/16	5/8	7/16	11/16	3/2	7/16	9/16	5/8

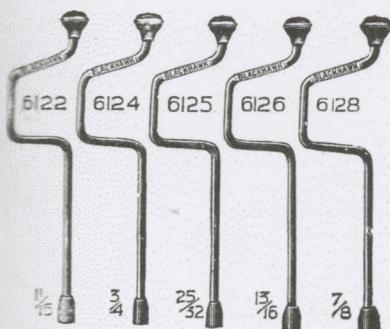
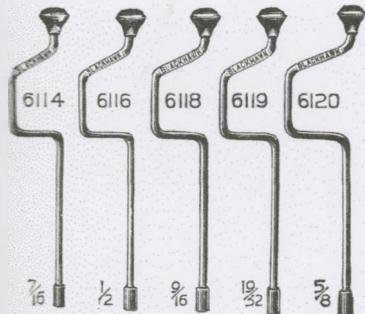
"Please order in unit packages." (10 wrenches).



**When ordering BLACKHAWK
Wrenches use our stock numbers**

**All BLACKHAWK Wrenches
are finished with the Parker
Rust Proof Process.**

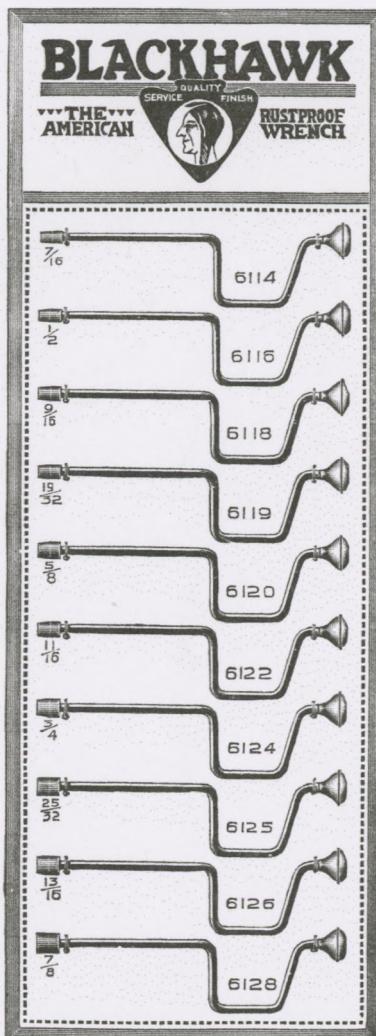
**SPEEDERS
No. 6100 Set**



Speed wrenches have become very popular, owing to the speed obtained in taking down and assembling motor cars, trucks, tractors, etc., and are found in practically every garage. BLACKHAWK speeders are made heavy, with hardened sockets, steel knobs, handles and Parker rust proof finish. None better. Look for the name BLACKHAWK when ordering socket wrenches.

No. 600. Set

This display board given Free with assortment or Blackhawk Speeders. Dealers will find this a great help in making increased sales.

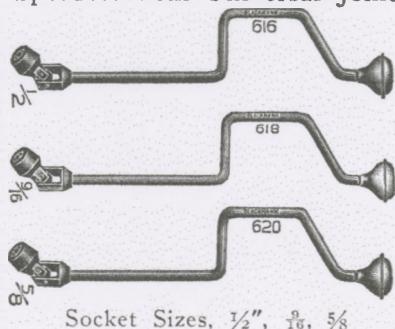


No. 600 Set contains 10 each size Speeders as shown on display board.

"Please order in unit packages." (10 wrenches).



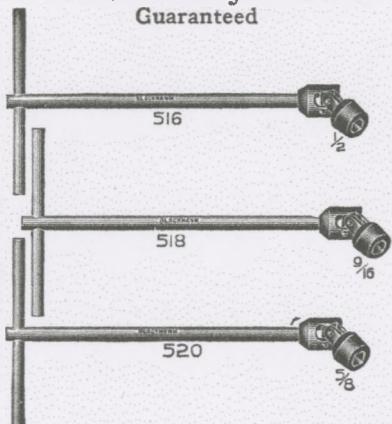
Speeders with Universal Joint



Socket Sizes, $\frac{1}{2}$ ", $\frac{9}{16}$, $\frac{5}{8}$

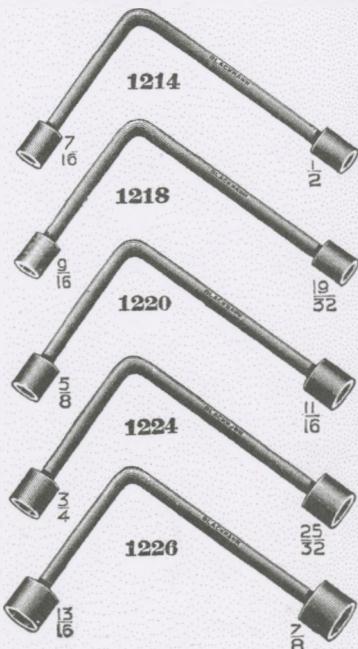
May be applied in many places, where the ordinary solid speeder cannot be used to advantage. These speed wrenches are made of the very best material and will give unlimited service. Every wrench guaranteed. Will be found most desirable for garage use. See directory.

Tee Socket Wrenches With Universal Joint Guaranteed



These wrenches are designed and made particularly for garage and service station use. Will save time in doing work and do it far better, as they will fit places where a particular style of wrench is needed. Made from the best material that can be obtained, and highest grade of workmanship. Every wrench guaranteed. Look for name BLACKHAWK when buying socket wrenches.

L Socket Wrenches No. 1200 Set.



Made strong and adaptable to many places where a Tee or speed wrench could not be used. Each wrench fitted with two sockets, making in reality 10 wrenches. A desirable set for all garages.
No. 1200 Set (5 wrenches)

Double End Steel Spark Plug Wrench



No. 3329 $29/32$ " x $1-1/32$ "

No. 3731 $31/32$ " x $1-5/32$ "

Bit Brace Shank



No. 4-B Bit shank 4"

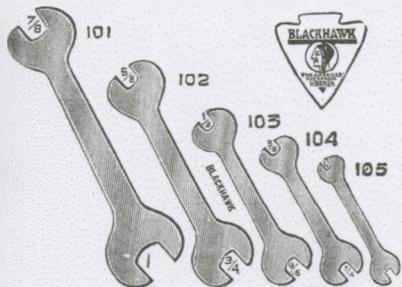
No. 6-B " " 6"

No. 8-B " " 8"

"Please order in unit packages." (10 wrenches).

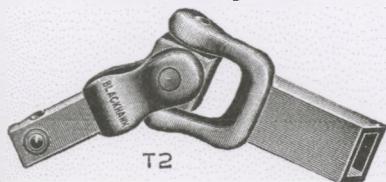


No. 100. Set Thin Open End Steel Wrenches



These wrenches are stamped, made from special steel and properly tempered. Will give satisfactory service.

Universal Joint



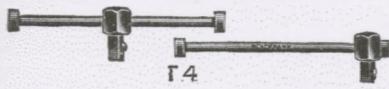
T-2 Extra quality dropped forged.

Ratchet Wrench



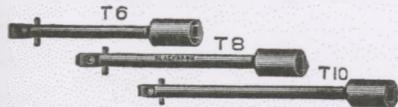
No. 911 Ratchet 9" handle.

Tee and Offset Handle



Used with Combination Parts.

Extension Bars

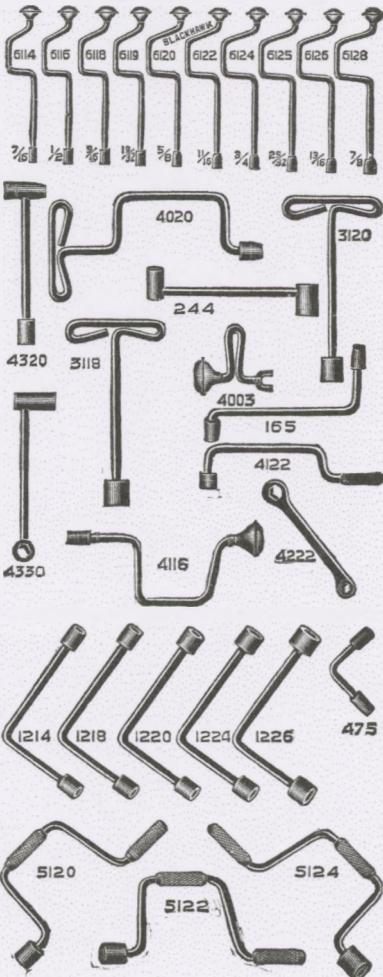


6", 8", 10" lengths,

Blackhawk Set No. 43

is a complete and necessary set of socket Wrenches, for use in a garage or service station.

There are no two size sockets on the same style handle. Wrenches in this set will fit many places on many different makes of cars.



Contains 30 tools packed in wooden box. See our directory for special use of different style Wrenches in this set.

"Please order in unit packages." (10 wrenches).



D I R E C T O R Y

Showing use of Wrenches in Number 43 Service Station Set

The following list gives the number of the wrench which should be used on the respective places mentioned. Order all Blackhawk wrenches by our stock numbers.

Buick

Air regulator tube bracket nuts.....	244
Brake shaft to frame nuts.....	4320
Cam shaft collar clamp screws.....	4320
Cam shaft supports to differential carrier cap screws.....	4320
Cap to yoke nuts.....	4320
Connecting rod nuts.....	1218-1220
Clutch pedal clamp screw.....	4320
Connecting rod nuts for main bearing.....	244
Crank case screws.....	175
Cylinder stud nuts.....	244
Differential to main housing cap screws.....	4320
End plate of transmission cap screws.....	4320
Front spring shackle bolts.....	4330
Generator studs.....	165
Housing cover cap screws.....	1220-1224
Insert connection carburetor screw.....	4330
Internal brake cam shaft clamp screw.....	4320
Motor arm bolt.....	4330
Muffler nuts.....	165
Auto brake lever clamp screw.....	4320
Radiator cap screws.....	475
Spark cross shaft lever clamp screws.....	165
Spring clip nuts.....	244
Steering arm nuts.....	244
Steering gear cap screws.....	244
Stop lever adjusting screw.....	4320
Torsion yoke cap screw.....	165
Transmission end plate assembling nuts.....	4330
Valve rocker arm bracket nuts.....	475
Valve stem nuts.....	244
Windshield to body nuts.....	4330

Cadillac

Clutch housing bolts.....	4330
Crank case nuts.....	1218
Differential bearing cap screw.....	4330
Timing gear cover nuts.....	1218
Water cap nuts.....	1218
Head lamp brackets.....	1224
Spring clip.....	4320
Steering rod adj. nut.....	1220-6120
Front hub nuts.....	1224
Front fender sup. bracket nuts.....	244-165
Cylinder head bolts.....	6125-1224
Exhaust manifold stud nuts.....	3118-6118
Engine plates front and rear.....	4320

Chalmers

Brake lever bolts.....	165
Connecting rod nuts.....	4320
Crank case cover bolts.....	4320-165
Cylinder head nuts.....	4320
Differential cover nuts.....	4320
Fan Clamp screws.....	244
Intake manifold clamp screw.....	4320
Main bearing nuts.....	4330
Radiator bolts.....	1220-1224
Rear transmission bolt.....	4320
Spoke bolt nuts.....	4330
Universal joint cap screws.....	4320

Cole 8

Front lamp bracket nut.....	6120-1220
Spring clip bolt heads.....	4320
Running board support bracket nuts, front, center and rear.....	1218
Front hub nuts.....	1226
Cylinder head nuts.....	3122-6122
Radiator to cylinder head water connection.....	6122
Radiator to pump connection.....	4320
Radiator nuts.....	1220
Exhaust manifold stud nuts.....	6118
Distributor clamp nuts.....	2118
Timing gear cover plate nuts.....	4320
Muffler & muffler bracket bolts and nuts.....	4320-1220
Rear spring to axle housing clamp nuts.....	4330
Differential housing bolts and nuts.....	6118-3118-2118-1218
Shifting rod bracket bolts and nuts.....	4320
Brake drum adj. nut.....	1124
Brake rod bracket nuts.....	4320
Rear hub bolt heads.....	6124-1224
Front and rear spring shackle nuts.....	4330
Front and rear spring clamps nuts.....	4330
Front fender to frame sup. bracket nuts.....	165
Front fender to frame sup. bracket nuts.....	165
Headlight bracket to frame nuts.....	165

Chevrolet

Axle housing.....	1218
Connecting rod.....	1218
Cylinder head bolts.....	1224
Front spring cap screw.....	1126
Intake & exhaust manifold nuts.....	1218
King bolts.....	1218-1224
Main bearing nuts.....	244
Rocker arm bracket.....	1218
Spring bolt rear.....	4330
Spring clip nuts.....	4330
Steering post nuts.....	244
Steering post sector gear.....	1218-1220
Transmission sup. bolts.....	2418
Fly wheel cap screws.....	1218
Radiator bolts.....	1218
Differential case bolts.....	1218
Fender bracket bolts.....	1218

Dodge

Breather body bolt.....	475
Bushing adjusting plate.....	475
Clutch housing cover.....	475
Clutch pedal clamp.....	165
Connecting rod nuts.....	244
Countershaft.....	175
Crank case cap screws.....	4116
Crank shaft main bearing.....	4330
Cylinder water inlet nuts.....	165
Main bearing nuts.....	4330
Oil pan strainer.....	475
Oil pump cover.....	475
Radiator support stud nuts.....	6120
Rear axle housing cover screw.....	165
Reverse idler gear bracket.....	475
Shifting shaft plunger screw.....	244
Spoke bolts.....	4330
Starter strap nuts.....	165
Steering gear on wheel shaft.....	475



Dodge—cont'd)

Timing gear cover.....	475
Transmission case cover.....	475
Transmission cover plates.....	475
Universal joint housing support screws.....	244

Essex

Front spring to frame nut and bolt.....	244
Spring clip bolts and nuts.....	4320
Front hub nuts.....	1122
Spring shackle bolts and nuts.....	244
Radiator nuts.....	4320
Lamp bracket nuts and bolts.....	165
Exhaust to muffler manifold connection.....	144
Exhaust manifold stud nuts.....	616-4320-6116
Cylinder head nuts.....	6126-3126
Engine base bolts.....	244
Fan adjusting nut.....	244
Steering gear adjusting nut.....	244
Differential housing nuts & bolts.1218-6118-3118	
Drive shaft housing nuts.....	1122
Rear spring to axle housing clip nuts.....	4330
Rear fender nuts.....	6116-1214

Ford

Axle housing bolt and nut.4116-4320-6216-516-616	
Brake & rev. sup. nut & bolt.3120-6120-520-420	
Brake shoe sup. nut.....	4218
Brake shoe sup. bolt.....	520-3120-6120-420
Brake band.....	4222
Clutch lever & release fork screws and nuts.....	518-6118-618-3118
Cylinder cover cap screws.....	6118-618-518-3118
Cylinder head cap screws.6120-620-420-520-4320	
Cylinder head inlet con. screws.....	4320
Cylinder head outlet con. screws.....	4320
Cylinder valve cover nut and stud.....	518-3118
Cylinder cover bolt and nut.....	618-6118-518-3118
Gear lock nut.....	438
Crank case lower cover.....	4116-4320-516-3116
Crank shaft bearing nuts center, front and rear.....	4218
Crank case arm bolt and nut.....	3118-518-1218
Connecting rod clamp screws.....	4218
Connecting rods including 4th.4020-4120-520-420	
Differential case stud and nuts.....	4320
Differential drive gear screws.....	516-4116-4320
Drive shaft pinion nut.....	430-4330
Drive shaft roller bearing nuts.....	4320
Fan bracket bolt.....	4218
Fan adj. screw and nut.....	518-3118-6118-618
Fly wheel cap screw nuts.....	4122
Fender iron bolt and nuts.....	4116-616-516-4320
Front spring clip nut.....	4330
Front spring tie bolt and nut.....	4320
Horn belt and nut.....	4330
Lamp bracket nuts.....	4218
Exhaust and exhaust clamp stud nuts.....	6118-618-518-3118
Magnet bolt.....	618-6118-518-3118
Motor bearing nut.....	4218
Muffler bracket bolt and nuts.6118-618-518-3118	
Muffler rod nuts.....	4116-616-4320
Radius rod ball joint.....	618-420-3118
Radiator stud nuts.....	1218-3118-618-518
Radius rod bolt and nut.....	4330
Rear spring clip nut.....	4330
Rearward band.....	4222
Running board bolt and nuts.....	4320
Speed con. lock nut.....	4222
Stern gear arm nut.....	4330
Spindle bolt and spindle bolt nut.....	4218
Spindle con. rod bolt.....	4218
Steering arm nut.....	1224-3125
Steering gear post nut.....	6214-4218-6118
Steering post bracket.....	618-518-4218-6118
Transmission band adj. screws.....	4222
Transmission band adj. screw nut.6118-618-3118	
Trans. case support bolt.....	4218-3118-518
Transmission cover bolt & nut..618-518-6118-3118	
Universal ball cap screws.....	518-3118

Haynes

Connecting rod nuts.....	1218-1220
Crank case cap screws.....	3118
Cylinder to motor base nuts.....	6125
Fan bracket bolt.....	165
Fender iron bracket nuts.....	244
Fly wheel pan cap screws.....	3118
Light bracket nuts.....	244
Main leaning bolts.....	244
Radiator nuts.....	244
Spoke bolt nuts.....	4330
Spring clip nuts.....	4330
Tire pump base cap screw.....	3118
Transmission cap screw.....	3118

Hudson

Connecting rod nuts.....	4320-1220
Connecting rod counterbalance weight.....	244
Crank case screws.....	3118
Cylinder crank case nuts.....	4330
Cylinder head bolts.....	4330
Exhaust manifold bolts.....	4330
Fan clamp screws.....	244
Main bearing bolts.....	1220-1224
Transmission bolt and nut.....	244
Water outlet bolts.....	105
Water pump to crank case bolts.....	4320
Front spring bolt nuts.....	4330
Front fender bracket sup. bolt and nut.....	165
Steering rod adj. nut.....	1122-1220
Steering rod nut.....	4330
Front and rear spring shackle nuts.....	4330
Running board sup. nuts.....	1222
Exhaust manifold nuts.....	1220
Muffler bracket nut and bolts.....	1220
Differential housing.....	1220-3120
Engine base bolt.....	1226

Maxwell

Clutch case to engine bolts.....	3118
Connecting rod nuts.....	1218-1220
Crank case cap screws.....	4116
Cylinder head bolts.....	4330
Differential housing bolts.....	1218-1220
Engine to bracket bolts.....	4330
Exhaust manifold bolts.....	165
Fly wheel nuts.....	4320
Gear case-cover-cap screw.....	105
Head lamp support nuts.....	1218-1220
Main bearing nuts.....	244
Radiator nuts.....	4320
Spring hanger nuts.....	4320

Oldsmobile, Model 37

Front hub nuts.....	1220-1122
Front spring to axle clip nuts.....	4330
Spring clip bolt and nuts.....	1116-4320
Front fender bracket to frame nuts & bolts.165	
Differential housing bolts & nuts.1220-3120-6120	
Cylinder head nuts.....	4330
Brake rod support nuts and bolts.....	144-165
Muffler bracket nuts.....	1214-4320
Engine cover plate.....	6116-3116
Engine base bolts.....	4330
Fan assembly.....	144-4320
Timing gear case.....	144-4220
Connecting rod.....	1214-6116-144
Main bearing.....	4330

Oldsmobile—Model 45-A

Front spring to frame bolt nuts.....	4320
Lamp bracket to frame bolts and nuts.165-144	
Front hub nuts.....	1220-1122
Spindle nut.....	4330
Cylinder head nuts.....	4330-6122-1220
Exhaust manifold stud nuts.....	6118-3118



(Oldsmobile—cont'd)

Radiator nuts.....	.4320-1218
Dash to frame bracket.....	.6118-3118
Distributor clamp nuts.....	.2110-475
Cyl. head to radiator connection stud nuts.....	.6118-3118
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Engine to frame bolt and nut.....	.244
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Universal joint nuts.....	.4320

Oldsmobile Truck

Front spring to axle clip nuts.....	.4330
Front fender support nuts and bolts.....	.165
Fan assembly nuts.....	.4320
Timing gear case nuts.....	.4320
Engine to frame bolts and nuts.....	.1220
Valve head upper bearing bolt heads.....	.4320-1116
Cylinder head nuts.....	.6124-3124-4218
Radiator to cyl. head connection bracket bolt heads.....	.4320
Front wheel hub nuts.....	.1125
Hub cap nuts, front and rear.....	.6116-3116-1214
Rear hub nuts.....	.4330-6122
Brake drum nuts.....	.4330

Overland

Crank case screws .....	.475
Cylinder head bolts .....	.175-4320-420-3120
Cylinder reduction gear case .....	.475
Connecting rod nuts .....	.275-2116
Differential plate cap screws.....	.475-3116-6116
Differential cover .....	.475-4116-3116
Emergency hand brake lever sector.....	.475
Exhaust manifold bolts .....	.475-2116
Fender to frame nuts and bolts.....	.475-2114
Front splash pan .....	.475-2114
Gasoline tank nuts .....	.475
Gear case cover nuts and bolts .....	.475-2116
Main bearing nuts.....	.275
Oil filler breather pipe.....	.475
Radiator stay rod nuts.....	.475
Oil pump nuts.....	.475
Rear hub caps.....	.375
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We will make any kind of special socket wrench to order.
Send in your blue print specifications.

(Overland—cont'd)

Side plate cap screws.....	.473
Steering post nuts.....	.375
Transmission case cover.....	.475
Wheel flange nuts.....	.4320

Paige

Front spring to frame bolt.....	.4218
Front spring to axle clamp nuts.....	.4330
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Reo

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Studebaker

Connecting rod nuts1218-1220
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